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MOTOR-DRIVEN COMPRESSOR TYPE ЭК10

Set of Drawings to Description
and Servicing Instructions

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LIST OF COMPONENTS

Ref. No.	Drw. No.	Component
1	ЭK10.05.70.00	Crankcase pan, assy
2	ЭK10.01.10.00	Crankcase
3	ЭK10.06.80.00	4th-stage water-and-oil separator
4	ЭK10.02.30.00A	1st- and 2nd-stage cylinder of 1st-, 2nd- and 4th-stage row, assy
5	ЭK10.00.26.00	4th-stage safety valve
6	ЭK10.02.48.00	2nd-stage delivery valve
7	ЭK10.02.39.00	1st-stage suction valve
8	ЭK10-1.03.001	1st, 2nd- and 4th-stage piston, assy
9	ЭK10-1-02.001	4th-stage cylinder, assy
10	ЭK10-1-02.002	4th-stage cylinder cover, assy
11	ЭK10.00.29.00	3rd-stage safety valve
12	ЭK10.00.10.01	Sleeve
13	ЭK10.04.140.00	2nd-, 3rd- and 4th stage cooler, assy
14	ЭK10.04.90.00	1st-stage cooler
15	ЭK10.00.31.00	Holder, assy
16	ЭK10.02.47.00	1st-stage delivery valve
17	ЭK10-1-02.010	3rd-stage delivery valve
18	ЭK10.00.28.00A	2nd-stage safety valve
19	ЭK10-1-02.009	3rd-stage suction valve
20	ЭK10.02.100.00	3rd-stage cylinder cover, assy
21	ЭK10.02.40.00A	3rd-stage cylinder, assy
22	ЭK10.03.110.00	1st-, 2nd- and 3rd-stage piston, assy
23	ЭK10.02.20.00A	1st- and 2nd-stage cylinder of 1st-, 2nd- and 3rd-stage row, assy
24	ЭK10.03.52.00	Pivot, assy
25	ЭK10.02.69.00	2nd-stage suction valve
26	ЭK10.03.32.00	Connecting rod, assy
27	ЭK10.00.10.14	Screen
28	ЭK10.00.27.00A	1st-stage safety valve
29	ЭK10-1-13.007	Silencer of suction noise
30	ЭK10.03.50.01	Wrist pin
31	ЭK10.03.50.02	Plug
32	ЭK10.03.52.02	Bush
33	ЭK10.03.20.07	Drive skew gear

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Ref. No.	Drw. No.	Component
34	ЭK10-1-06.005	1st-stage water-and-oil separator
35	ЭK10.03.20.00	Crankshaft, assy
36	ЭK10.05.50.00	Oil cooler
37	ЭK10.05.50.00	Oil filter, Coarse section after Cartridges of spares 3HC-510, 1949 issue
38	ЭK10-1-02.005	4th-stage suction valve
39	ЭK10-1-02.006	4th-stage delivery valve
40	ЭK10.00.11.00A	Transmission cover
41	ЭK10-1-05.019	Oil pump, assy
42	ЭK10.04.120.00	Water pump
43	ЭK10-1-05.001	Oil catcher
44	ЭK10.02.20.06	Shim
45	938-H321	Shim
46	ЭK10.02.20.05	Shim
47	ЭK10.01.11.14	End wall
48	ЭK10.01.11.21	Plate
49	ЭK10.01.11.10	Bracket
50	ЭK10.01.11.08	Flange
51	ЭK10.01.11.16	Flange
52	ЭK10.01.11.17	Support
53	ЭK10.01.11.03	Support
54	ЭK10.01.12.00	Cover
55	ЭK10.01.11.05	Side wall
56	ЭK10.01.11.01	Crankcase bottom
57	ЭK10.01.11.12	Plate
58	ЭK10-1-02.108	Check spring
59	no drawing	Stud M16 x 90
60	251.02.213A	Packing ring
61	ЭK10.02.21.03	2nd-stage cylinder liner
62	ЭK10.02.110.01	Plug M36
63	535-36.008	Drain cock
64	ЭK10-1-02.109	Check spring
65	938-H173	Packing ring D = 45 and D = 36
66		
67	ЭK-10.02.43.00	Protector

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Ref. No.	Drw. No.	Component
68	no drawing	Stud M16 $\times$ 50
69	ЭК10.02.41.02	3rd-stage cylinder liner
70	ЭК10.1-02.101	4th-stage cylinder liner
71	ЭК10.02.120.02	Shim
72	ЭК10.02.100.02	Safety valve seat
73	ЭК10.02.120.03	Shim
74	ГОСТ 20001-38	Stud, M12 $\times$ 45
75	ЭК10.02.100.02	Safety valve seat
76	ЭК10.02.110.01	Plug M36
77		
78		
79	ЭК10.03.21.02A	Counterweight
80	ЭК10.03.20.11	End cover
81	938-M173	Packing ring D = 130
82	ПНЦ1-3	Rubber frame-type sealing gland
83	no drawing	Through-netted packing АП mesh 6 $\times$ 6
84	ЭК10.03.20.04A	Bearing seat
85	ГОСТ 5721-57	Self-aligning roller bearing No. 3612
86	ЭК10.02.20.07	Drive gear
87	ЭК10.03.81.05	3rd-stage piston ring
88	ЭК10.03.20.12	Bush
89	938-35.078	Packing ring
90	ЭК10.03.32.08A	Shims set
91	ЭК10.03.32.01	Connecting rod stem
92	ЭК10.03.32.02	Connecting rod bushing
93	ЭК10.03.32.09	Lock of piston backing
94	ЭК10.03.32.06	Shim
95	ЭК10.03.32.05	Piston backing
96	ЭК10.03.32.03	Connecting rod bearing (upper half)
97	ЭК10.03.32.04	Connecting rod bearing (lower half)
98	ЭК10.03.32.07	Connecting rod bolt
99	ЭК10.03.91.02	2nd-stage piston ring
100	ЭК10.03.31.05	1st-stage piston ring
101	923-M170	Binding nut
102	924-M92	Lock washer

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Ref. No.	Drw. No.	Component
103	ЭК10.03.81.02	3rd-stage piston
104	ЭК10.03.81.03	Split pivoted bearing
105	ЭК10.03.82.00	3rd-stage piston rod
106	ЭК10.03.110.01	1st- and 2nd-stage piston of 1st-, 2nd- and 3rd-stage row
107	ЭК10.03.51.02	Wrist pin
108	ЭК10-1-03.101	4th-stage piston
109	ЭК10-1-03.102	4th-stage piston rod
110	921-И365	Screw M4
111	ЭК10.03.91.01	1st- and 2nd-stage piston of 1st-, 2nd- and 4th-stage row
112		
113	ЭК10.02.39.01	1st-stage suction valve body
113	ЭК10.02.67.01	2nd-stage suction valve body
113	ЭК10-1-02.117	3rd-stage suction valve body
114	ЭК10.02.39.03	1st-stage suction valve arrester
114	ЭК10.02.69.01	2nd-stage suction valve arrester
114	ЭК10-1-02.129	3rd-stage suction valve arrester
115	ЭК10.02.39.04	1st-stage suction valve spring
115	ЭК10.02.48.01	2nd-stage suction valve spring
115	ЭК10.02.106	3rd-stage suction valve and delivery valves spring
116	ЭК10.03.188	1st-stage suction valve disc
116	ЭК10-04.152	Disc of 2nd- and 3rd-stage suction valves and 1st-, 2nd- and 3rd-stage delivery valves
117	ЭК10.02.39.02	1st-stage suction valve seat
117	ЭК10.02.67.02	2nd-stage suction valve seat
117	ЭК10-1-02.118	3rd-stage suction valve seat
118	ЭК10.02.47.01	Valve seat of 1st- and 2nd-stage delivery valves
120	ЭК10.02.39.04	Valve spring of 1st-stage delivery valve
120	ЭК10.02.39.04	Valve spring of 2nd-stage delivery valve
121	ЭК10.02.47.02	Valve cup of 1st- and 2nd-stage delivery valves
122	ЭК10.02.38.03	Binding nut of 1st- and 2nd-stage delivery valve
123	ЭК10.02.68.01	Body of 3rd-stage delivery valve

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Ref. No.	Drw. No.	Component
125	ЭК10-1-02.127	Valve spring of 3rd-stage suction and delivery valves
126	ЭК10-1-02.130	Valve arrester of 3rd-stage delivery valve
127	ЭК10-1-02.110	4th-stage suction valve cup
127	ЭК10-1-02.113	4th-stage delivery valve cup
128	ЭК10-1-02.125	4th-stage suction valve seat
128	ЭК10.02-121.02	4th-stage delivery valve seat
129	ЭК10-1-102.111	4th-stage suction valve spring
129	ЭК10-1-02.114	4th-stage delivery valve spring
130	ЭК10.03.184	4th-stage suction valve disc
130	ЭК10.02.121.04	4th-stage delivery valve disc
131	936-Н118	Plug, M14
132	ГОСТ 8338-57	Ball bearing No. 305
133	ЭК10.04.120.12	Gasket
134	ЭК10.04.121.00	Water pump housing, assy
135	ЭК10.02.120.01	Pump cover
136	ЭК10.04.120.03	Pump impeller
137	ЭК10.04.120.07	Special screw
138	ЭК10.04.120.02	Shim
139	ЭК10.04.120.06	Bearing housing
140	ЭК10.04.122.00	Packing ring
141	ЭК10.04.120.09	Spacer
142	ЭК10.04.120.10	Pump shaft
143	ЭК10.04.120.11	Gear
144		
145	ЭК10.04.20.05	Packing ring
146	ЭК938-Н1173	Packing ring, D = 130
147	ЭК10.04.92.02	Tube sheet
148	ЭК10.04.94.00	Cooler cover
149	ЭК10.04.20.04	Ring
150	ЭК10.04.92.03	Plate
151	ЭК10.04.92.04	Fin
152	ЭК10.04.91.00	Cooler casing
153	ЭК10.04.92.00	Tube bunch
154	ЭК10.04.92.01	Pipe frame
155		

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Ref. No.	Drw. No.	Component
156	AK10.04.90.01	Protector
157		
158		
159	AK10.04.140.02	Cover
160	AK10.04.131.02	Flange
161	AK10.04.147.02	Deflector
162	AK10.04.141.01	Jacket
163	AK10.04.147.01	Internal jacket
164	AK10.04.143.03	Tube sheet
165	938-И173	Packing ring, D = 100
166	AK10.04.141.04	Flange
167		
168	AK10.04.140.03	Cover
169	AK10.04.134.02	Union
170	AK10.04.130.09	Flange
171	AK10.04.134.01	Union
172	ГОСТ 2526-51	Nut, 1M24
173	AK10.04.130.02	Ring
174	938-И173	Packing ring, D = 20
175		
176	AK10.04.143.02	Partition
177	AK10.04.144.00	3rd- and 4th-stage sections of 2nd-, 3rd- and 4th-stage cooler
178		
179	AK10.04.130.06	Cover
180	AK10.04.130.04	Arrester
181	AK10.04.143.00	2nd-stage section of 2nd-, 3rd- and 4th-stage cooler
182	AK10.04.143.01	Tube sheet
183		
184		
185		
186	AK10.06.31.10A	Boss
187	AK10.06.31.01	Separator housing
188	AK10.06.31.05A	Inlet pipe
189	AK10.06.31.03	Pipe
190	AK10.06.31.07	Pipe

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Ref. No.	Drw. No.	Component
191	ЭK10.06.81.01	Separator housing
192	ЭK10.06.80.08	Water-and-oil separator
193	ЭK10.06.80.09	Valve seat
194	ЭK10.06.80.03	Nipple union
195	ЭK10.06.80.04	Valve lift stop
196	921-M488	Bolt
197	555-M30	Spacer
198	ЭK10.06.80.05	Flange
199	ГОСТ 3722-60	Ball III 12.7 mm H
200	ЭK10.06.81.04	Union
201	ЭK10.06.81.05	Plug
202	ЭK10-1-05.131	Bushing
203	ЭK10-1-05.135	Gear
204	ЭK10-1-05.134	Bushing
205	ЭK10.05.016	Oil pump cover, assy
206	ЭK10.05.013	Oil pump housing, assy
207	ЭK10.05.130	Shaft with driven pinion
208	ЭK10.05.129	Shaft with driving pinion
209	no drawing	Reducing valve
210		
211	ЭK10.05.60.02	Plug
212	ЭK10.05.62.00	Branch pipe, assy
213	ЭK10-1-05.006	Dipstick
214	ЭK10.05.51.00	Oil cooler pipe bunch
215	ЭK10.05.50.01	Casting of cooler and filter
216	ЭK10.05.51.01	Tube sheet
217	922-M141	Stud M8 × 28
218	ЭK10.1-05.011	Intake pipe cover
219	938-M173	Packing ring, D = 45
220	ЭK10.05.51.03	Partition
221	ГC 936-5	Drain plug
222	ЭK10.05.50.04	Fixing strip
223	ГОСТ 7808-57	Bolt M8 × 18-K
224	ЭK10.05.51.01	Tube sheet
225	ЭK10.1-05.012	Outlet pipe cover

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Ref. No.	Drw. No.	Component
226	Catalogue of spares, 3HC-150, 1949 issue	Washer
227		Pin
228		Cleaning plate
229		Ring
230		Oil filter rod
231		Filtering plate
232		Sprocket-shaped plate
233		Pin
234		Oil filter cap
235		By-pass valve
236	Catalogue of spares, 3HC-150, 1949 issue	Cap
237		Ring
238		Ring
239		Spring disc
240		Spring
241		Barrel
242		Valve
243		Packing piece
244		Valve guide
245		Valve seat
246	3K10.00.27.05 3K10.00.27.06 3K10.00.27.08 3K10.00.27.07 3K10.00.27.04 3K10.00.27.03 3K10.00.27.02 3K10.00.27.01 3K10.00.29.01 3K10.00.29.02 3K10.00.26.02 3K10.00.26.06 3K10.00.26.05 935-26.127 3K10.00.26.04 3K10.00.26.07 3K10-1-00.115 3K10.00.22.10 3K10.00.26.03 3K-10-1-00.101 3K10.07.41.00	Valve seat
247		Valve seat
248		Spring
249		Valve body
250		Valve cap
251		Adjusting barrel
252		Spring
253		Spring disc
254		Valve guide
255		Valve
256	3K10-1-00.115 3K10.00.22.10 3K10.00.26.03 3K-10-1-00.101	Gasket
257		Valve seat
258		Lock washer
259		
260		1st-stage blowing-off valve

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Ref. No.	Drw. No.	Component
261	HI-9941	Shock absorber type AKCC-10 M
262	ЭK10.07.51.00	2nd- and 3rd-stage pressure gauge valves
263	ЭK10.07.41.00	4th-stage blowing-off valve
264	no drawing	Gauze filter
265	No drawing	Bolt M12 × 35
266	ЭK10-1-13.003	Silencer
267	ЭK10-1-13.002	T-joint
268	ЭK10-1-13.120	Bracket
269	ЭK10-1-13.007	Air suction receiver of 1st-, 2nd- and 3rd-stage row
270	ЭK10-1-13.007	Air suction receiver of 1st-, 2nd- and 4th-stage row
271	ЭK10.13.01.07	Union
272	ЭK10-1-13.105	Pipe
273	ЭK10-1-13.008	Pipe
274	ЭK10-1-13.009	Pipe
275	ЭK10-1-02.128	Bush of suction and delivery valves of 3rd stage
275	ЭK10-1-02.124	Bush of suction valve of 4th stage
275	ЭK10-1-02.116	Bush of delivery valve of 4th stage
276	ЭK10-1-02.112	4th-stage suction valve spring
276	ЭK10-1-02.115	4th-stage delivery valve spring

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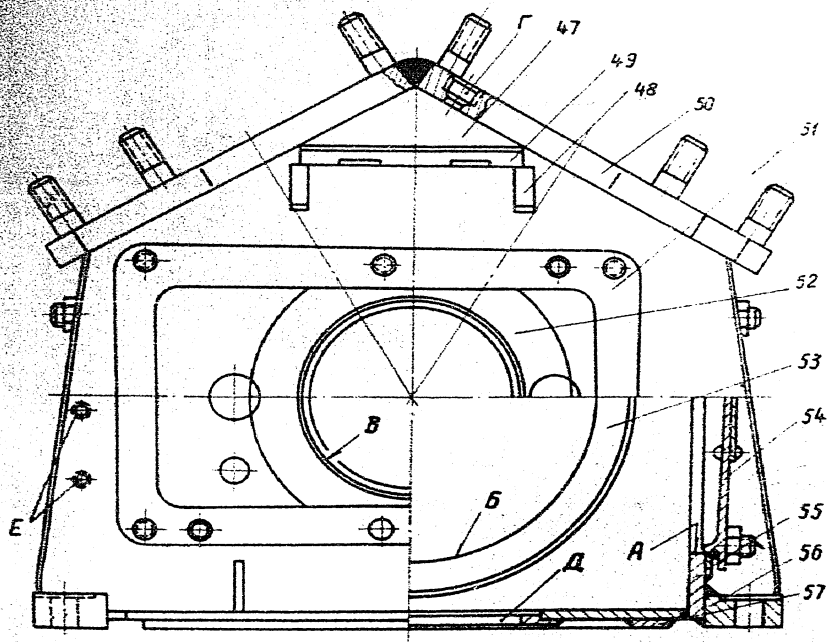
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Sheet 1

Crankcase, assy (ЭК 10.01.10.00)

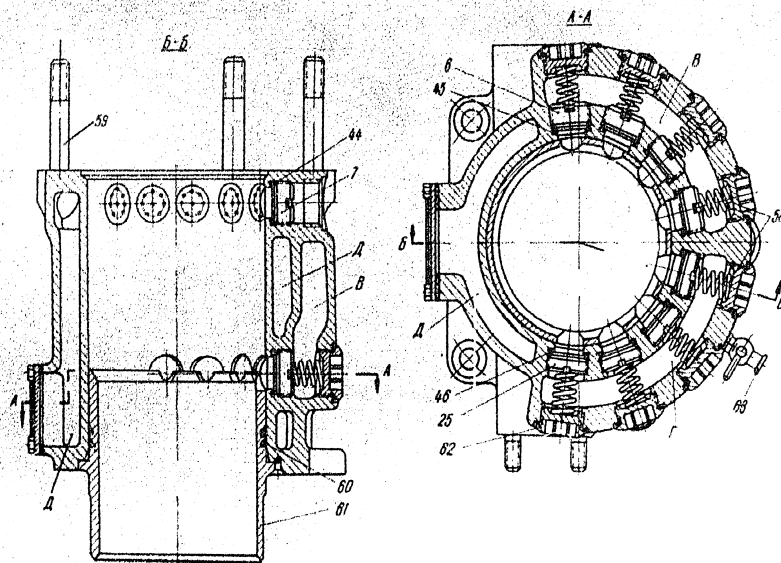


47 — end wall; 48 and 57 — plates; 49 — bracket; 50 and 51 — flanges; 52 and 53 — supports; 54 — cover; 55 — side wall; 56 — bottom; A — port; Б, В — openings; Г, Е — threaded holes; Д — hole in bottom

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1st- and 2nd-stage cylinder of 1st-, 2nd- and 3rd-stage row
(ЭК 10.02.20.00А)



6 - 2nd stage delivery valve; 7 - 1st stage suction valve; 25 - 2nd stage suction valve; 44, 45, 46 - seals; 58 - check spring; 59 - stud; 60 - packing ring; 61 - 2nd stage cylinder liner; 62 - plug; 63 - drain cock; B and I - channels; Д - water space

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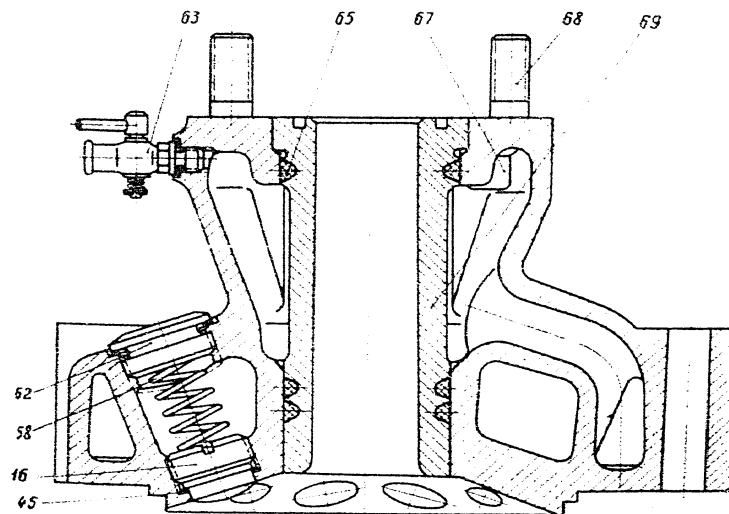
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Sheet 3

3rd-stage cylinder, assy (ЭК 10.02.40.00А)



16 -- 1st stage delivery valve; 45 -- shim; 58 -- check spring; 62 -- plug; 63 -- drain cock; 65 -- packing ring; 67 -- protector; 68 -- stud; 69 -- 3rd stage cylinder liner

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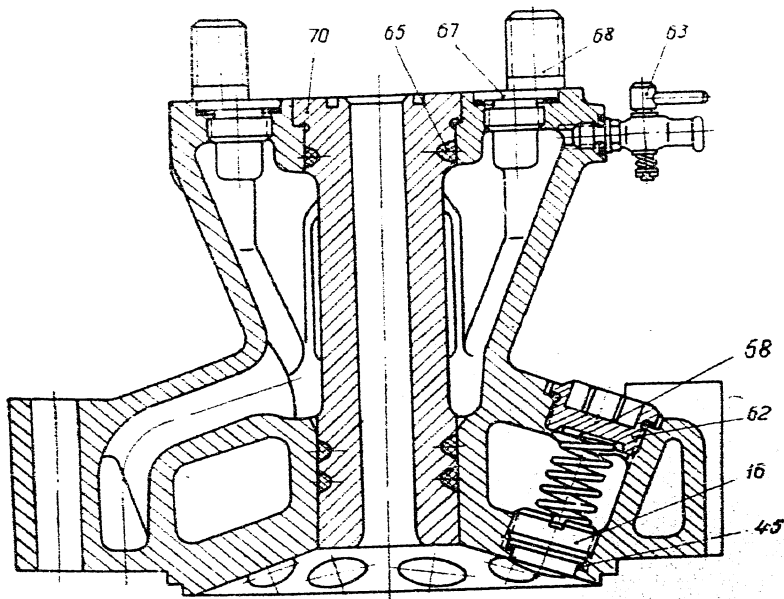
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Sheet 4

4th-stage cylinder, assy (ЭК 10-1-02.001)



16 — 1st stage delivery valve; 45 — shim; 58 — check spring; 62 — plug;
63 — drain cock; 65 — packing ring; 67 — protector; 68 — stud; 70 — 4th
stage cylinder liner

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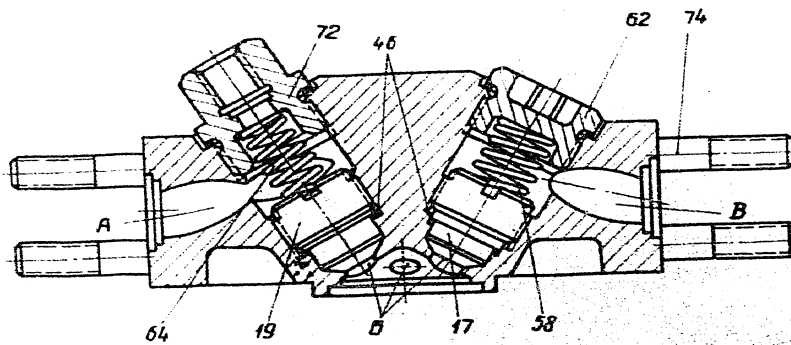
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Sheet 5

3rd-stage cylinder cover, assy (ЭК 10.02.100.00)



17 — 3rd stage delivery valve; 19 — 3rd stage suction valve; 46 — shims;
58 — check spring; 62 — plug; 64 — check spring; 72 — safety valve seat; 74 —
stud; A, B, and D — openings

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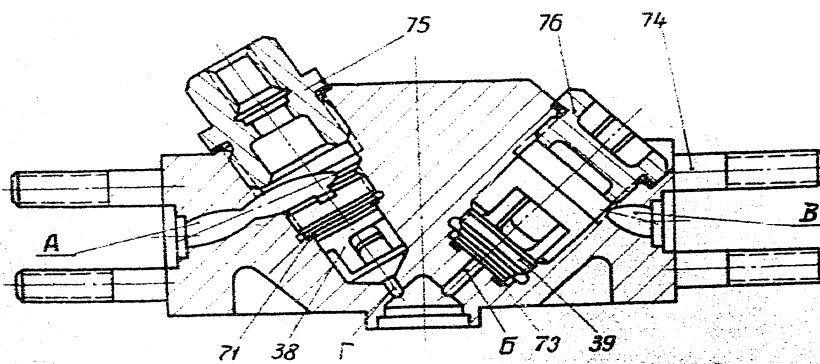
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Sheet 7

4th-stage cylinder cover, assy (ЭК 10-1-02.002)



38 — 4th stage suction valve; 39 — 4th stage delivery valve; 71, 73 — shims,
74 — stud; 75 — safety valve seat; 76 — plug; A, B, B and F — openings

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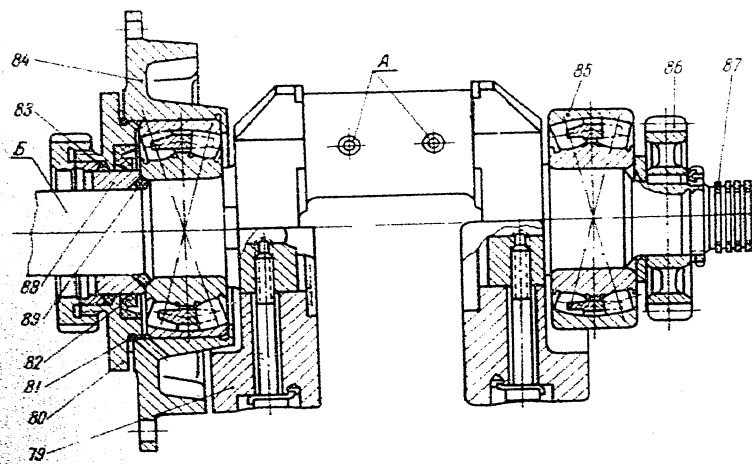
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Sheet 7

Crankshaft, assy (ЭК 10.03.20.00)



79 — counterweight; 80 — end cover; 81 — packing ring; 82 — rubber sealing gland of a frame type; 83 — packing; 84 — bearing seat; 85 — roller bearing No. 3612; 86 — drive skew gear; 87 — 3rd stage piston ring; 88 — bush; 89 — packing ring; A — opening; B — crankshaft tail

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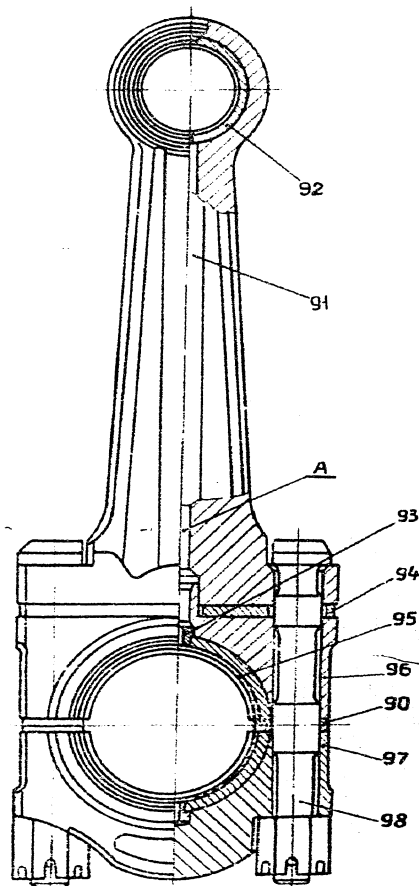
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Sheet

Connecting rod, assy
(ЭК 10.03.32.00)



90 — set of shims; 91 — connecting rod stem; 92 — connecting rod bushing; 93 — lock of backing; 94 — shim; 95 — connecting rod backing; 96 — rod bearing (upper half); 97 — rod bearing (lower half); 98 — rod bolt; A — opening

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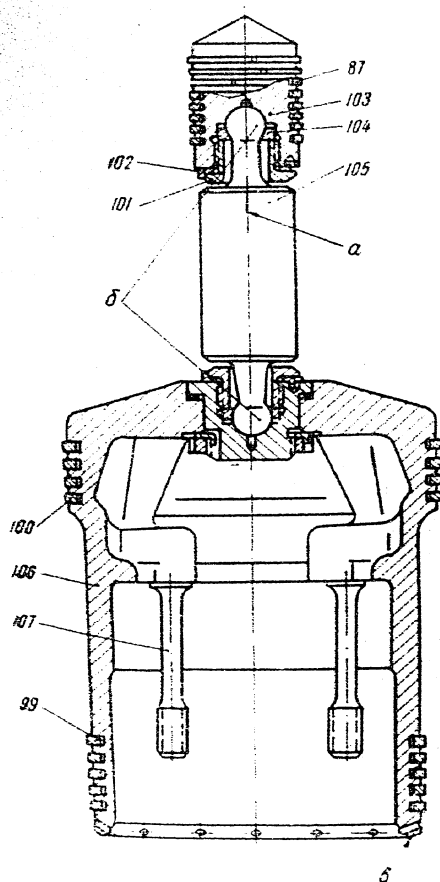
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Sheet 9

1st-, 2nd- and 3rd-stage piston, assy
(9K 10.03.110.00)



87 — 3rd stage piston ring;
99 — 2nd stage piston ring;
100 — 1st stage piston ring;
101 — binding nut; 102 — lock
washer; 103 — 3rd stage piston;
104 — split pivot bearing; 105 —
3rd stage piston rod; 106 — 1st-
and 2nd stage piston of 1st,
2nd and 3rd row; 107 — wrist
pin

a — Reference mark; δ — When
assembling, coat the ball pivots
with graphite; δ — Reference
mark on piston end and on
ball pivot should be situated
on same side

31

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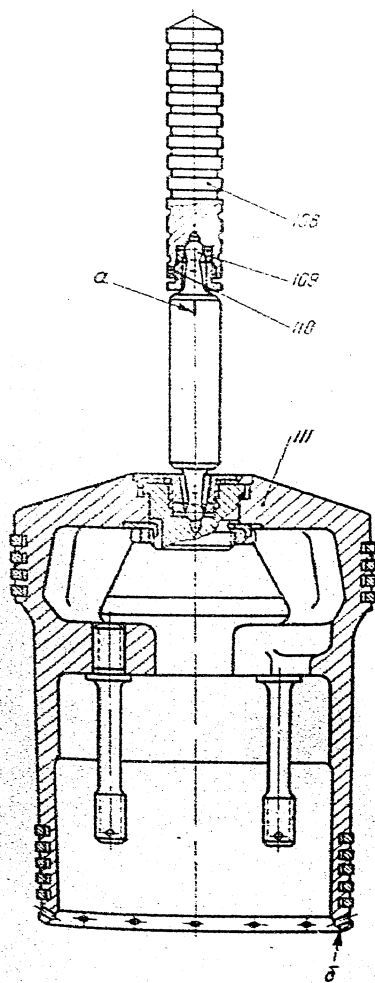
50X1-HUM

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50X1-HUM

Sheet 10

1st-, 2nd- and 4th-stage piston,
assy (ЭК 10-1-03.001)



108 — 4th stage piston; 109 — 4th
stage piston rod; 110 — screw; 111 —
1st- and 2nd stage piston of 1st, 2nd
and 4th row
a — Reference mark; б — Reference
mark on piston end and on ball pivot
should be situated on same side

3 32K43 14

33

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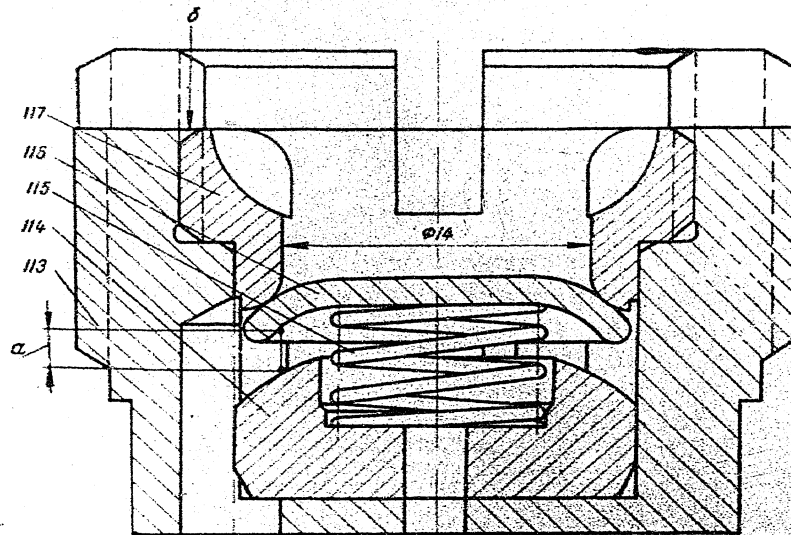
50X1-HUM

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50X1-HUM

Sheet 11

1st-stage suction valve (ЭК 10-02.39.00)



113 — valve body; 114 — valve arrester; 115 — valve spring; 116 — valve disc;
117 — valve seat
a — to be punched on two opposite slots; $\delta — 2^{+0.2}$ valve disc travel

3*

35

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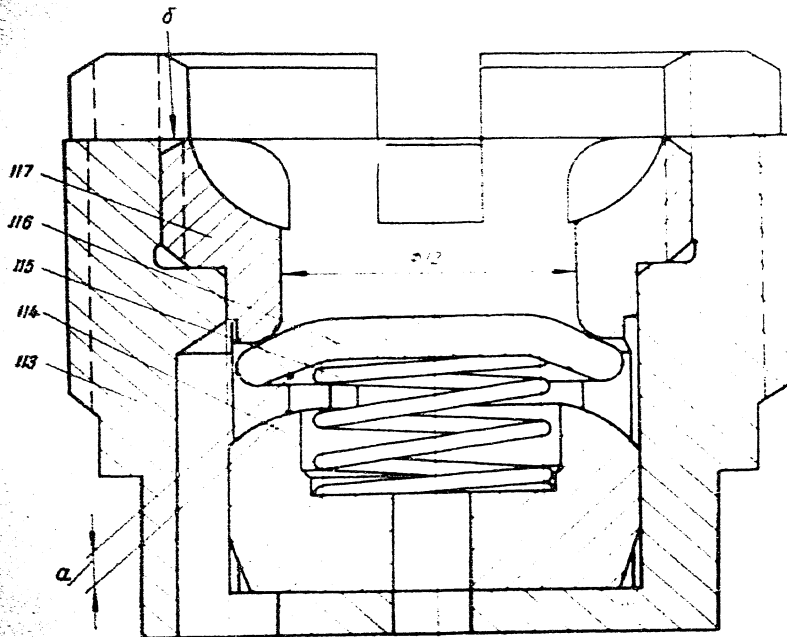
50X1-HUM

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50X1-HUM

Sheet 12

2nd-stage suction valve (ЭК 10.02.69.00)



113—valve body; 114—valve arrester; 115—valve spring; 116—valve disc;
117—valve seat
a—to be punched on two opposite slots; $\delta = 1.5^{+0.2}$ valve disc travel

37

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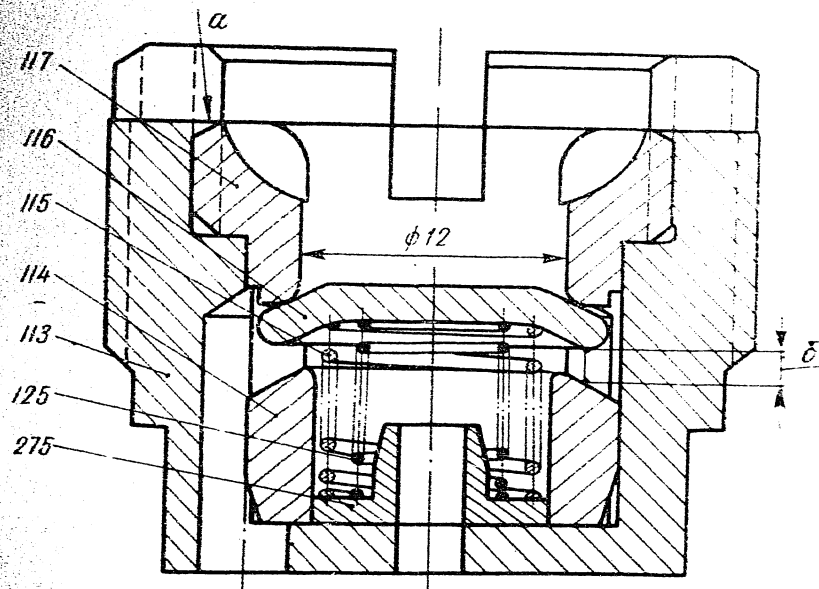
50X1-HUM

SECRET

50X1-HUM

Sheet 13

3rd-stage suction valve (ЭК 10.02.102.00)



113 — valve body; 114 — valve arrester; 115 — valve spring; 116 — valve disc;
117 — valve seat; 125 — spring; 275 — valve bush
a — to be punched on two opposite slots; δ — 1.3 ± 0.05 valve disc travel

39

SECRET

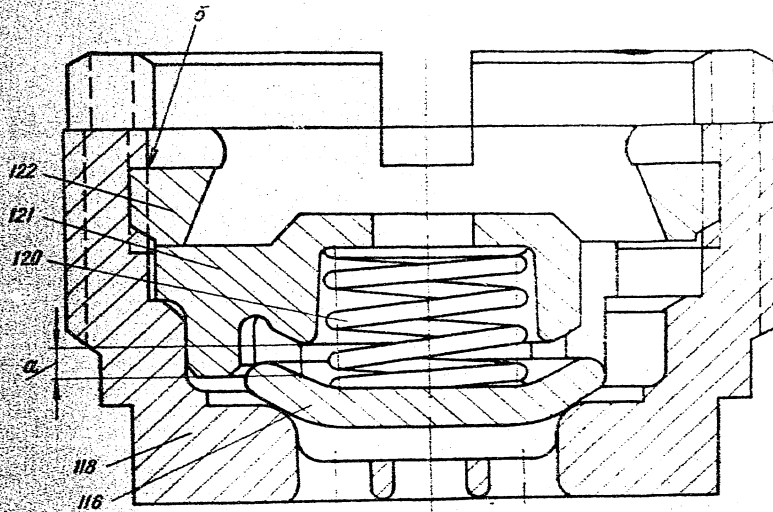
50X1-HUM

SECRET

50X1-HUM

Sheet 14

1st-stage delivery valve (ЭК 10.02.47.00)



116 — valve disc; 118 — valve seat; 120 — valve spring; 121 — valve cup;
122 — binding nut
a — to be punched on two opposite slots; 5 — $1.5^{+0.2}$ valve disc travel

41

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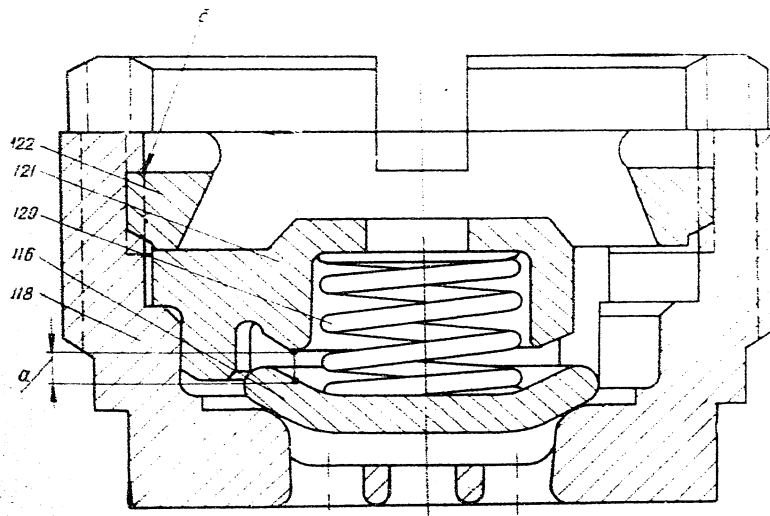
50X1-HUM

SECRET

50X1-HUM

Sheet 15

2nd-stage delivery valve (ЭК 10.02.48.00)



116 — valve disc; 118 — valve seat; 120 — valve spring; 121 — valve cup; 122 — binding nut
α — to be punched on two opposite slots; δ — 1.5 ± 0.2 valve disc travel

43

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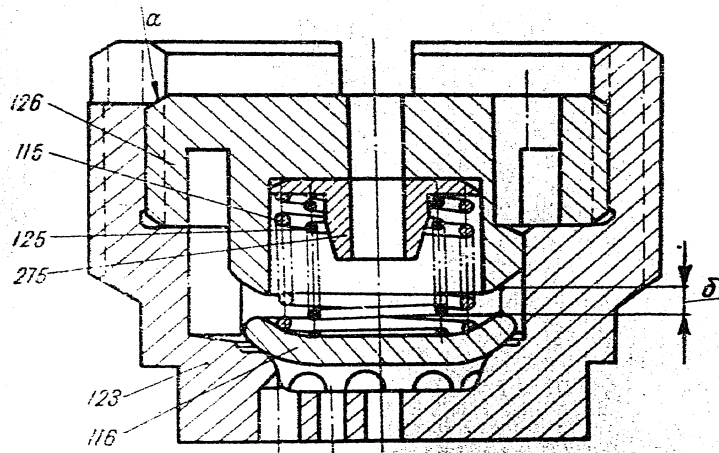
50X1-HUM

SECRET

50X1-HUM

Sheet 16

3rd-stage delivery valve (ЭК 10.02.02.010)



115 — valve spring; 116 — valve disc; 123 — valve body; 125 — valve seat; 126 — valve arrester; 275 — valve bush
 a — to be punched on two opposite slots; δ — $1.5^{+0.05}$ valve disc travel

45

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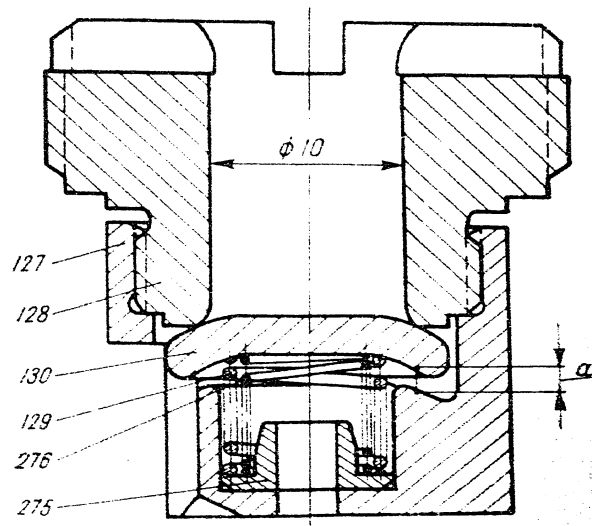
50X1-HUM

SECRET

50X1-HUM

Sheet 17

4th-stage suction valve (ЭК 10-1-02.005)



127 — valve cup; 128 — valve seat; 129 — valve spring;
130 — valve disc; 275 — valve bush; 276 — spring
a — 1.4_{-0.1} valve disc travel

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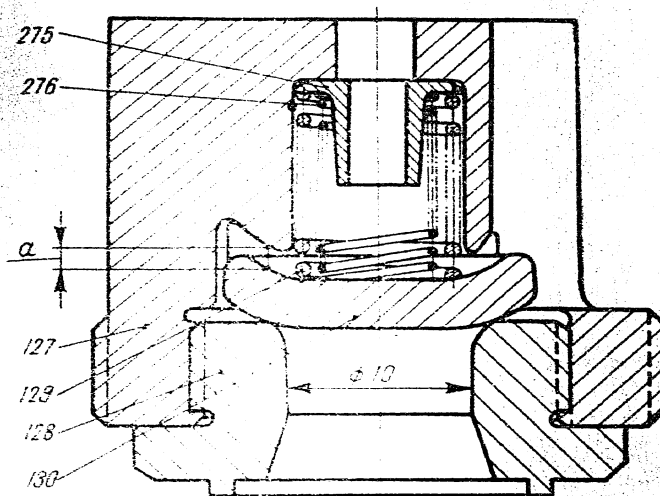
50X1-HUM

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50X1-HUM

Sheet 18

4th-stage delivery valve (ЭК 10-1-02.006)



127 — valve disc; 128 — valve bush; 129 — valve spring; 130 — valve body; 275 — valve bush; 276 — spring
a — valve disc travel

4 SECRET 14

49

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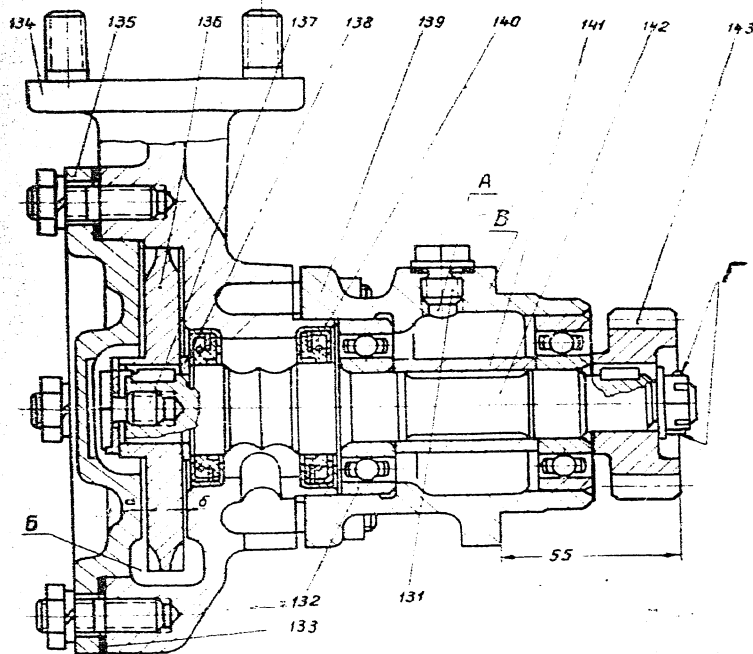
50X1-HUM

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50X1-HUM

Sheet 19

Water pump (ЭК 10.04.120.00)



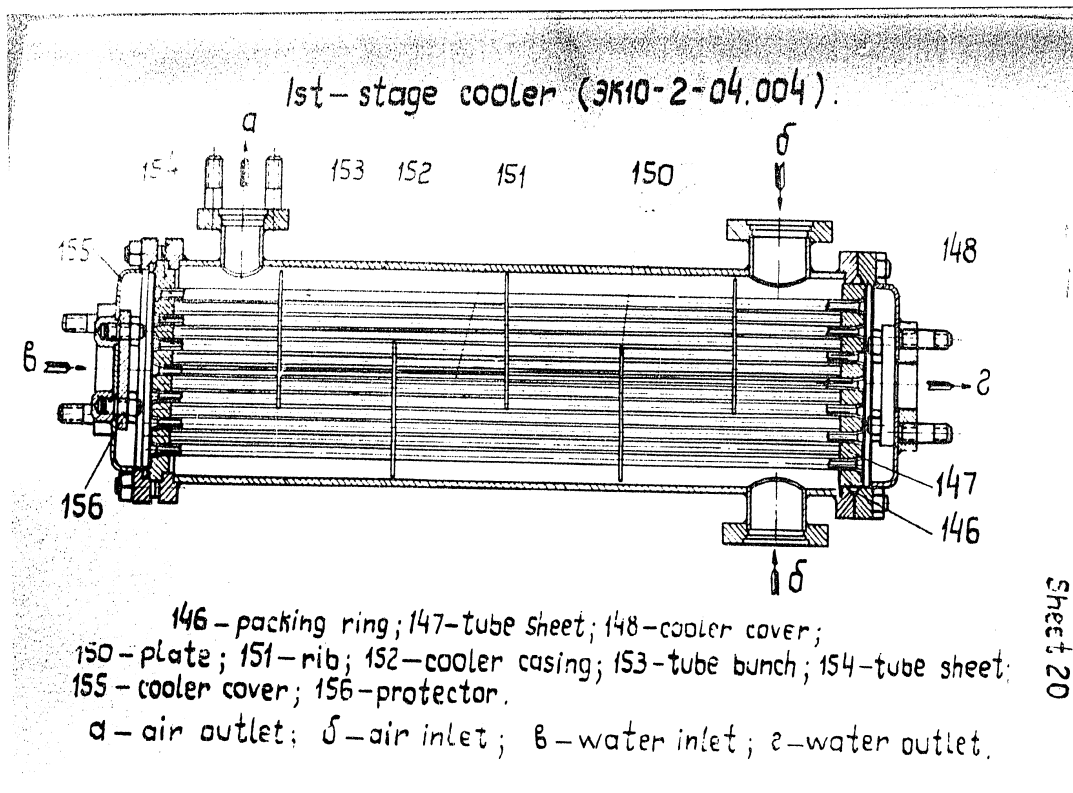
131 — plug; 132 — ball bearing No. 305; 133 — gasket; 134 — water pump housing; 135 — pump cover; 136 — impeller; 137 — special screw; 138 — shim; 139 — bearing housing; 140 — packing ring; 141 — spacer; 142 — pump axle; 143 — skew gear; A — opening; B — channel; B — flange; a and b — clearances; F — Cotter pin is allowed to be protruded above nut facet not over 1.5 mm. This should be checked after every assembling and overhauling

4*

51

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50X1-HUM



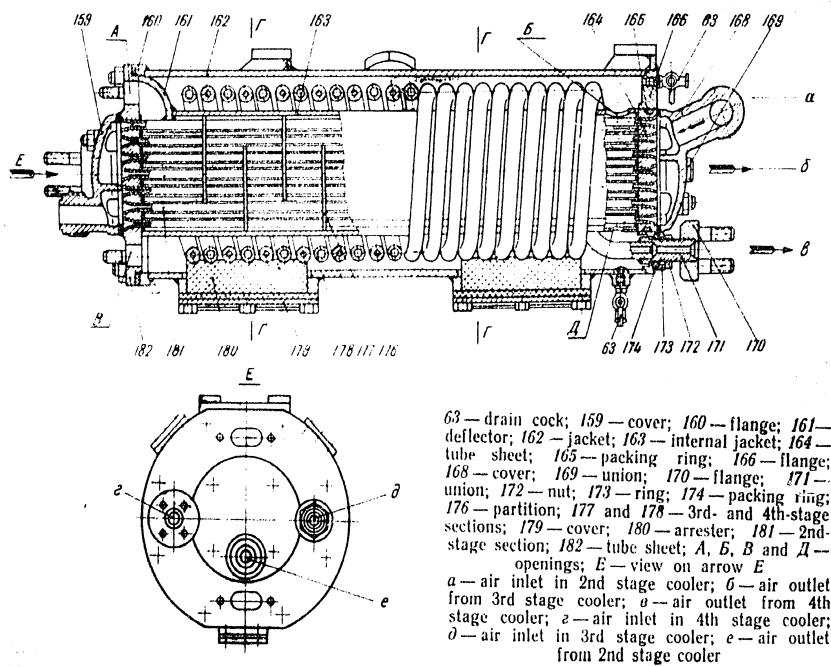
50X1-HUM

50X1-HUM

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Sheet 20

2nd-, 3rd- and 4th-stage cooler (ЭК 10.04.140.00)



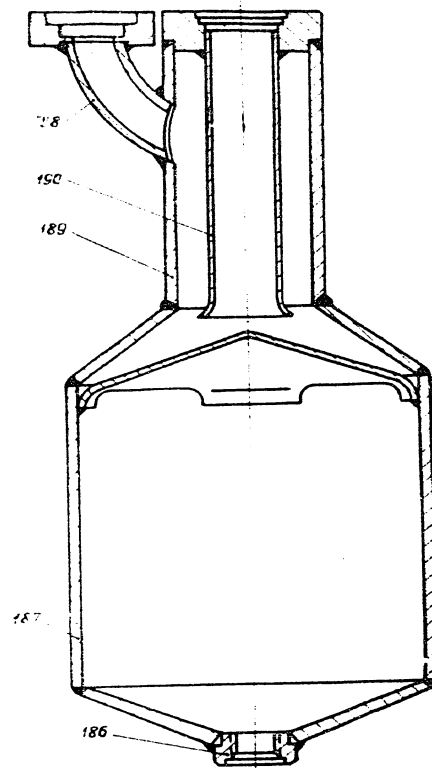
Sheet 21

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50X1-HUM

Sheet 22

1st-stage water-and-oil separator,
assy (ЭК 10-1-06.004)



185 — boss; 187 — housing; 188 — inlet pipe;
189 and 190 — pipes

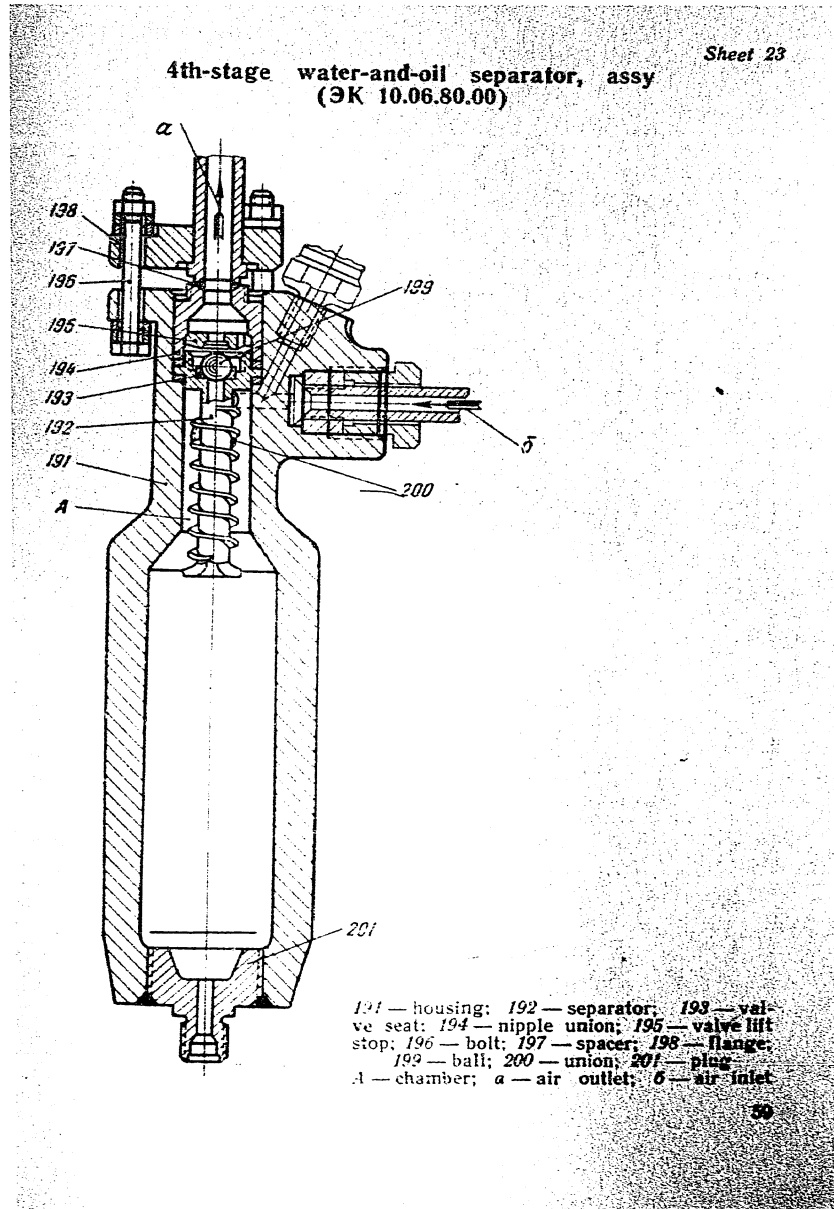
57

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50X1-HUM

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50X1-HUM

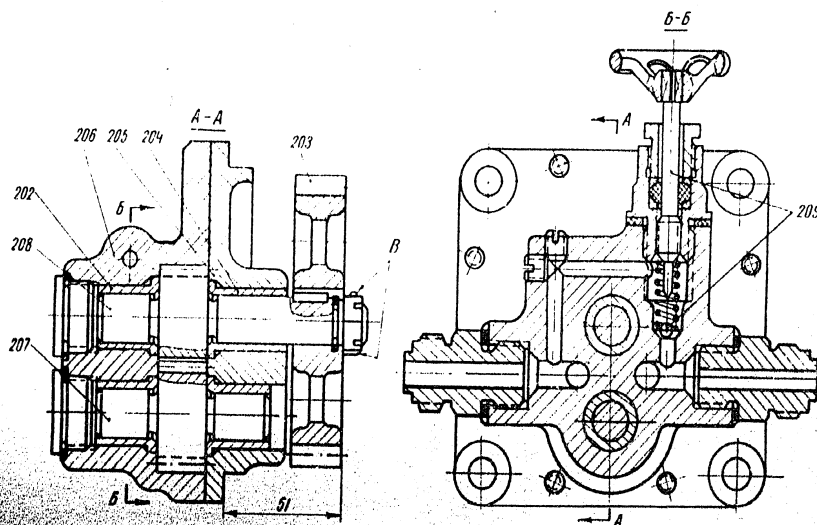


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50X1-HUM

50X1-HUM

Oil pump (3K 10-1-05.019)



201 — bush; 203 — gear; 204 — bushing; 205 — pump cover; 206 — pump housing; 207 — axle with driven pinion; 208 — shaft with driving pinion; 209 — reducing valve
 A — Cotter pin is allowed to protrude above nut facet not over 1.5 mm. This should be checked after assembling and overhauling

Sheet 24

50X1-HUM

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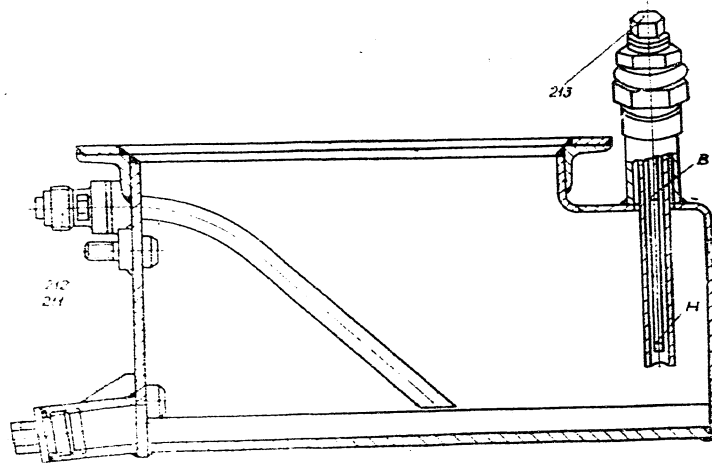
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50X1-HUM

Sheet 25

Crankcase pan, assy (9K 10.05.70.00)



211 -- plug; 212 -- pipe, assy; 213 -- dipstick
B and H -- level marks

63

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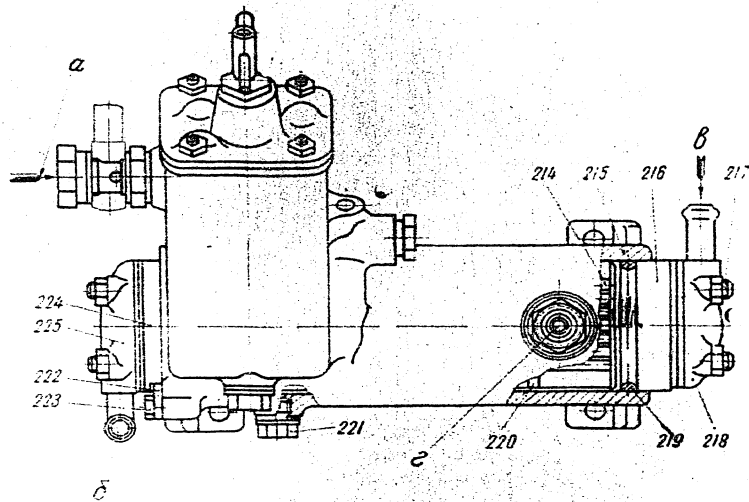
50X1-HUM

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50X1-HUM

Sheet 26

Oil cooler and filter (ЭК 10.05.50.00)



214 — oil cooler section; 215 — oil cooler and filter housing; 216 — tube sheet;
217 — stud; 218 — intake pipe cover; 219 — packing ring; 220 — partition;
221 — drain plug; 222 — fixing strip; 223 — bolt; 224 — tube sheet; 225 — outlet
pipe cover
a — oil inlet; b — water outlet; c — water inlet; d — oil outlet

5 Заказ 14

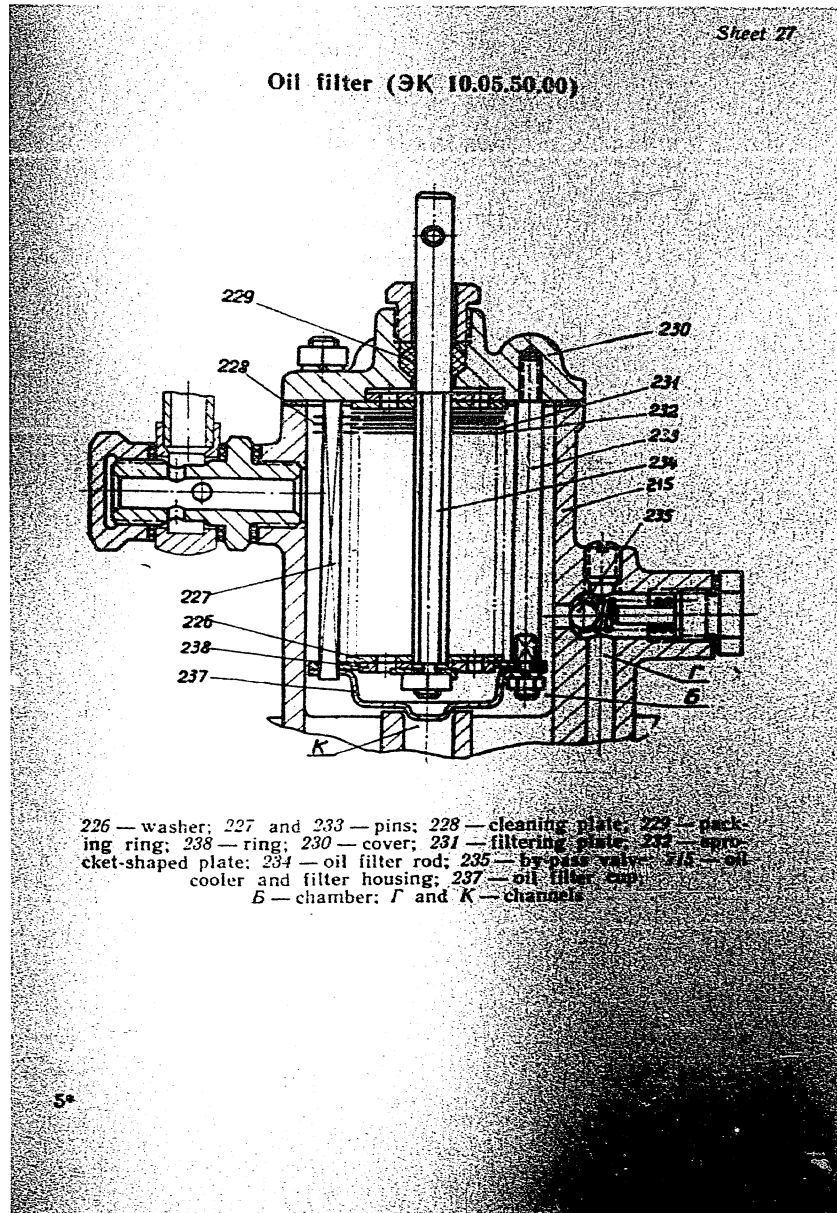
26

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50X1-HUM

SECRET

50X1-HUM



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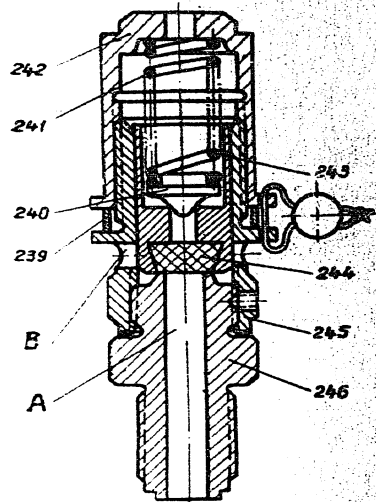
50X1-HUM

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50X1-HUM

Sheet 28

1st- and 2nd-stage safety valve
(ЭК 10.00.27.00А and
ЭК 10.00.28.00А)



239 — ring; 240 — spring disc; 241 —
spring; 242 — barrel; 243 — valve;
244 — packing piece; 245 — guide;
246 — valve seat;
A and B — openings

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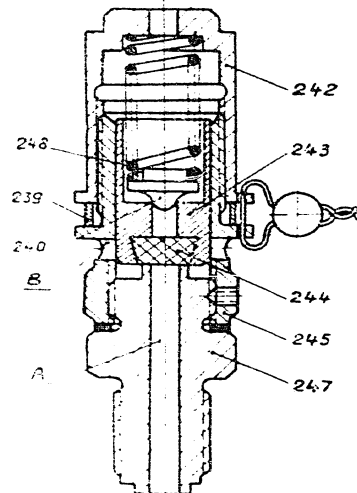
50X1-HUM

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50X1-HUM

Sheet 29

3rd-stage safety valve
(3K 10.00.29.00)



241 — spring disc; 242 —
valve; 244 — packing
247 — valve seat;
245 — spring;
B — openings

71

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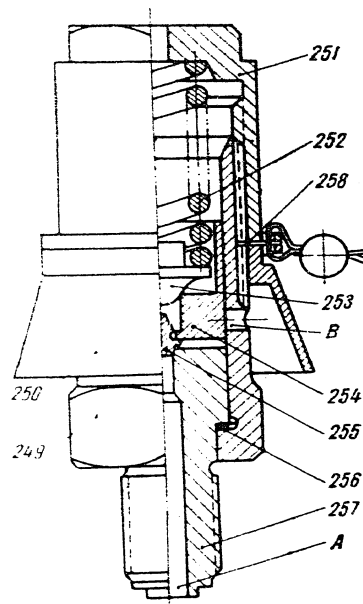
50X1-HUM

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50X1-HUM

Sheet 30

4th-stage safety valve
(ЭК 10.00.26.00)



249 — valve body; 250 — valve cap;
251 — adjusting barrel; 252 — spring;
253 — spring disc; 254 — valve guide;
255 — valve seat; 256 — gasket; 257 — val-
ve; 258 — lock washer
A and B — openings

73

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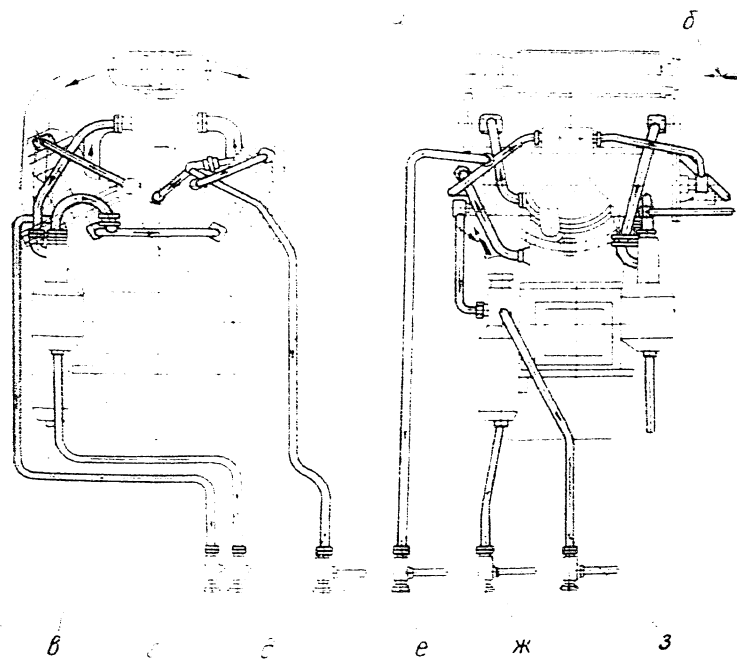
50X1-HUM

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50X1-HUM

Sheet 31

Layout of air piping (ЭК 10.06.60.00А)



a — air outlet; б — air inlet; в — to 1st stage pressure gauge; г — to 1st stage blow-off valve; д — to 2nd stage pressure gauge; е — to 3rd stage pressure gauge; ж — to 4th stage blow-off valve; з — to 4th stage pressure gauge

75

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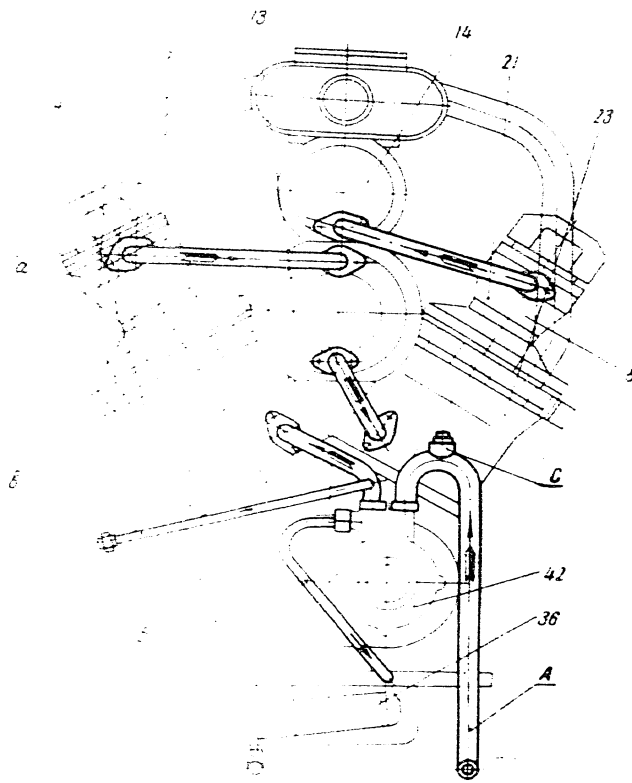
50X1-HUM

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Sheet 32

Layout of cooling water piping (3K 10.04.110.00)



13 — 4th stage row; 9 — 4th stage
cooling water pump; 14 — 1st-stage cool-
ing water pump; 21 — 1st and 2nd stage cylinder
cooling water pump; A and C — water pump; A and
C — 1st, 2nd and 3rd stage
cooling water pump; 36 — gauge

77

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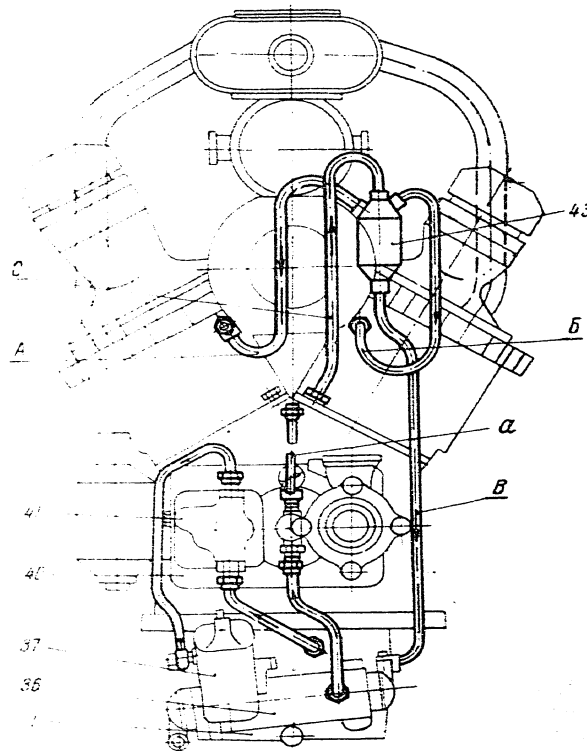
50X1-HUM

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50X1-HUM

Sheet 33

Layout of oil piping (ЭК 10.05.00.00А)



1 — pan; 1 — oil cooler; 37 — oil filter; 40 — transmission cover; 41 — oil pump; 43 — oil catcher; A, B, B and C — oil tubings
a — to pressure gauge

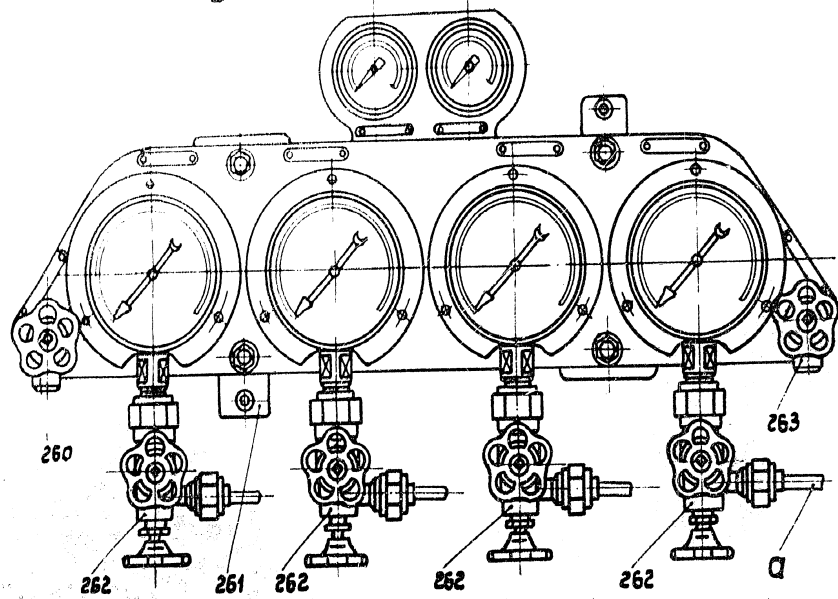
79

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50X1-HUM

50X1-HUM

Pressure gauge panel (3K10-1-07 $\frac{002}{003}$).



260 - 1st stage blowing-off valve; 261 - shock absorber type AKCC-10M; 262 - 1st, 2nd, 3rd, and 4th stage pressure gauge valves; 263 - 4th stage blowing-off valve
a - pipe 8x1.5

Sheet 34

50X1-HUM

50X1-HUM

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